

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method comprising:

generating source code from a block diagram model, ~~the generating comprising:~~
~~including in the generated source code one or more comments that identify a reference to~~
~~an element in the block diagram model;~~
~~generating a code generation report from the generated source code, the generating of the~~
~~code generation report comprising:~~
~~parsing the one or more comments in the generated source code;~~
~~replacing the one or more comments with a hypertext link that refers to~~
~~the element of the block diagram model identified by the comment; and~~
~~providing a hypertext link in a listing of the generated source code to associate an~~
~~element of the generated source code with an element of the block diagram model~~
~~displaying the code generation report to a user.~~

2. (Currently Amended) The method of claim 1 further comprising:

~~displaying the source code and the hypertext link on a display;~~
 receiving input from a user representing a selection of the ~~at least one~~ hypertext link; and
 displaying to the user at least a portion of the block diagram model including the element
 of the model associated with the hypertext link.

3. (Original) The method of claim 2, wherein displaying to the user at least a portion of the
 block diagram model comprises displaying the associated element in a highlighted fashion.

4. (Cancelled).

5. (Currently Amended) The method of claim 1, wherein ~~the parsing replaces a variable~~
~~reference in the generated code with a hypertext link to an [[the]] associated element in the~~
~~generated source code is a variable reference in an operative code section~~block diagram model.

6. (Original) The method of claim 1 wherein the hypertext link is Standard Generalized Markup
 Language (SGML).

7. (Original) The method of claim 1 wherein the hypertext link is Hypertext Markup Language (HTML).

8. (Previously Presented) The method of claim 5 wherein the hypertext link is Extensible Markup Language (XML).

9. (Currently Amended) The method of claim ~~[[4]]~~ 1 wherein the ~~at least one comment listing a reference to a block~~ commented reference to a block comprises a character string identifying a path to a file providing information relating to a section of the block.

10. (Currently Amended) A system comprising:

means for generating source code from a block diagram model, the generated source code including at least one comment listing a reference to a block in the block diagram model; and

~~means for providing a hypertext link in a listing of the generated source code that associates an element of the generated source code with an element of the block diagram model.~~

means for generating a code generation report from the generated source code, the generating of the code generation report parsing the at least one comment in the generated source code and replacing the at least one comment with at least one hypertext link that refers to a corresponding element of the block diagram model; and

means for displaying the code generation report to a user.

11. (Currently Amended) The system of claim 10 further comprising:

~~means for displaying the source code and the hypertext link on a display;~~

means for receiving input from a user representing a selection of the hypertext link; and

means for displaying to the user at least a portion of the block diagram model including the element of the model associated with the hypertext link.

12. (Previously Presented) The system of claim 11, wherein the means for displaying to the user at least a portion of the block diagram model comprises displaying the associated element in a highlighted fashion.

13. (Cancelled)

14. (Currently Amended) The system of claim 10, wherein the parsing replaces a variable reference in the generated code with a hypertext link to an associated element in the block diagram model ~~generated source code is a variable reference in an operative code section.~~

15. (Previously Presented) The system of claim 10 wherein the hypertext link is Standard Generalized Markup Language (SGML).

16. (Previously Presented) The system of claim 10 wherein the hypertext link is Hypertext Markup Language (HTML).

17. (Previously Presented) The system of claim 16 wherein the hypertext link is Extensible Markup Language (XML).

18. (Currently Amended) The system of claim ~~[[13]]~~ 10 wherein the at least one comment listing a reference to a block ~~commented reference to a block~~ comprises a character string identifying a path to a file providing information relating to a section of the block.

19. (Currently Amended) A computer program product residing on a computer readable medium having instructions stored thereon which, when executed by the processor, cause the processor to:

generate source code from a block diagram model, the generated source code including at least one comment listing a reference to a block in the block diagram model;

generate a code generation report from the generated source code, the generating of the code generation report parsing the at least one comment in the generated source code and replacing the at least one comment with at least one hypertext link that refers to a corresponding element of the block diagram model; and

display the code generation report to a user.

~~;~~and

~~providing a hypertext link in a listing of the generated source code to associate an element of the generated source code with an element of the block diagram model.~~

20. (Original) The computer program product of claim 19 wherein the computer readable medium is a random access memory (RAM).

21. (Original) The computer program product of claim 19 wherein the computer readable medium is read only memory (ROM).

22. (Original) The computer program product of claim 19 wherein the computer readable medium is hard disk drive.

23. (Currently Amended) A computing system comprising:

a processor and

a memory,

wherein the processor and memory are configured to:

generate source code from a block diagram model, the generated source code including at least one comment listing a reference to a block in the block diagram model;

generate a code generation report from the generated source code, the generating of the code generation report parsing the at least one comment in the generated source code and replacing the at least one comment with at least one hypertext link that refers to a corresponding element of the block diagram model;
and

displays the code generation report to a user.

~~generate source code corresponding to a block diagram model and provide a hypertext link in a listing of the generated source code to associate an element of the generated source code with an element of the block diagram model.~~

24. (Previously presented) The system of claim 23 wherein the processor and the memory are incorporated into a personal computer.

25. (Previously presented) The system of claim 23 wherein the processor and the memory are incorporated into a network server capable of Internet communication.

26. (Previously presented) The system of claim 23 wherein the processor and the memory are incorporated into a single board computer.

27. (Currently Amended) A method for generating a document having information about source code associated with a graphical model and providing a hyperlink referencing an element of the graphical model in the document, the method comprising the steps of:

providing source code identifying an element of a graphical model, the generated source code including at least one comment listing a reference to a block in the graphical model;

generating a document from the generated source code, the generating of the code generation report parsing the at least one comment in the generated source code and replacing the at least one comment with at least one hypertext link that refers to a corresponding element of the graphical model; and

displaying the document to a user;

~~generating a document comprising information about the source code; and~~

~~providing, in the document, a hyperlink referencing the element of the graphical model, wherein the graphical model is a block diagram model.~~

28. (Currently Amended) The method of claim 27 further comprising:

selecting the hyperlink to one of display or identify the referenced element in the graphical model.

29. (Currently Amended) The method of claim 27 further comprising:

providing the hyperlink at a location in the document having information about a portion of source code identifying the element of the graphical model.

30-35. (Cancelled)